SEQUENCE LISTING

- (1) GENERAL INFORMATION:

 - (ii) TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THERAPEUTIC INTERVENTION IN CARDIAC HYPERTROPHY
 - (iii) NUMBER OF SEQUENCES: 9
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Arnold, White & Durkee
 - (B) STREET: P.O. Box 4433
 - (C) CITY: Houston
 - (D) STATE: Texas
 - (E) COUNTRY: USA
 - (F) ZIP: 77210
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: US Unknown
 - (B) FILING DATE:
 - (C) CLASSIFICATION: Unknown
 - (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: McMillian, Nabeela R.
 - (B) REGISTRATION NUMBER: P-43,363
 - (C) REFERENCE/DOCKET NUMBER: UTSD:548
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 512/418-3000
 - (B) TELEFAX: 512/474-7577
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

(2) INF	ORMATION FOR SEQ ID NO:2:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
TCCCTGC	CTT TTCCAGCAAC GGT	23
(2) INF	ORMATION FOR SEQ ID NO:3:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
GCTCCAG	GAT AAAAGGCCAC GGT	23
(2) INF	ORMATION FOR SEQ ID NO:4:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
TACATTG	GAA AATTTTATTA CAC	23
(2) INF	ORMATION FOR SEQ ID NO:5:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:	
TGGAAAA	CAA	10

(2) INFORMATION FOR SEQ ID NO:6:

	(i)	(A) (B) (C)	LEI TYI	E CHI NGTH PE: 1 RANDI POLOG	: 10 nucle EDNE:	base eic a	e pa acid sing	irs									
	(xi)	SEQ	UENC	E DE	SCRI	PTIO	N: S	EQ II	on o	:6:							
TGG	AAAAG	GC															10
								•									
(2)	INFORMATION FOR SEQ ID NO:7:																
	(i)	i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear															
	(xi)	SEQ	JENCI	E DES	SCRI	PTIO	N: S	EQ II	ON C	:7:							
AGG!	ATAAA	AG															10
(0)																	
(2)	INFO	RMAT I	ION 1	FOR S	SEQ :	ID NO	0:8:										
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 902 amino acids(B) TYPE: amino acid(C) STRANDEDNESS:(D) TOPOLOGY: linear																
	(xi)	SEQU	JENCI	E DES	SCRI	PTIO	N: S	EQ II	ои о	: 8 :							
	Met 1	Gly	Ala	Ala	Ser 5	Сув	Glu	Asp	Glu	Glu 10	Leu	Glu	Phe	Leu	Leu 15	Val	
	Phe	Gly	Glu	Glu 20	Leu	Glu	Ala	Pro	Pro 25	Leu	Gly	Ala	Gly	Gly 30	Leu	Gly	
	Glu	Glu	Leu 35	Asp	Ser	Glu	Asp	Ala 40	Pro	Pro	Суз	Сув	Arg 45	Leu	Ala	Leu	
	Gly	Glu 50	Pro	Pro	Pro	Tyr	Gly 55	Ala	Ala	Pro	Ile	Gly 60	Ile	Pro	Arg	Pro	
	Pro 65	Pro	Pro	Arg	Pro	Gly 70	Met	His	Ser	Pro	Pro 75	Pro	Arg	Pro	Ala	Pro 80	
	Ser	Pro	Gly	Thr	Trp 85	Glu	Ser	Gln	Pro	Ala 90	Arg	Ser	Val	Arg	Leu 95	Gly	
	Glv	Pro	Glv	Glv	Glv	Δla	Glv	Glv	Δla	Glv	Glv	Glv	Ara	Val	Leu	Glu	

100 105 110

Cys Pro Ser Ile Arg Ile Thr Ser Ile Ser Pro Thr Pro Glu Pro Pro Ala Ala Leu Glu Asp Asn Pro Asp Ala Trp Gly Asp Gly Ser Pro Arg Asp Tyr Pro Pro Pro Glu Gly Phe Gly Gly Tyr Arg Glu Ala Gly Ala Gln Gly Gly Ala Phe Phe Ser Pro Ser Pro Gly Ser Ser Leu Ser Ser Trp Ser Phe Phe Ser Asp Ala Ser Asp Glu Ala Ala Leu Tyr Ala Ala Cys Asp Glu Val Glu Ser Glu Leu Asn Glu Ala Ala Ser Arg Phe Gly Leu Gly Ser Pro Leu Pro Ser Pro Arg Ala Ser Pro Arg Pro Trp Thr Pro Glu Asp Pro Trp Ser Leu Tyr Gly Pro Ser Pro Gly Gly Arg Gly Pro Glu Asp Ser Trp Leu Leu Leu Ser Ala Pro Gly Pro Thr Pro Ala Ser Pro Arg Pro Ala Ser Pro Cys Gly Leu Arg Arg Tyr Ser Ser Ser Gly Thr Pro Ser Ser Ala Ser Pro Ala Leu Ser Arg Arg Gly Ser Leu Gly Glu Gly Ser Glu Pro Pro Pro Pro Pro Pro Leu Pro Leu Ala Arg Asp Pro Gly Ser Pro Gly Pro Phe Asp Tyr Val Gly Ala Pro Pro Ala Glu Ser Ile Pro Gln Leu Thr Arg Arg Thr Ser Ser Glu Gln Ala Val Ala Leu Pro Arg Ser Glu Glu Pro Ala Ser Cys Asn Gly Leu Leu Pro Leu Gly Ala Glu Glu Ser Val Ala Pro Pro Gly Gly Ser Arg Lys Glu Val Ala Gly Met Asp Tyr Leu Ala Val Pro Ser Pro Leu Ala Trp Ser Leu Ala Arg Ile Gly Gly His Ser Pro Ile Phe Arg Thr

Ser Ala Leu Pro Pro Leu Asp Trp Pro Leu Pro Ser Gln Tyr Glu Gln Leu Glu Leu Arg Ile Glu Val Gln Pro Arg Ala His His Arg Ala His Tyr Glu Thr Glu Gly Ser Arg Gly Ala Val Leu Ala Ala Pro Gly Gly His Pro Val Val Leu Leu Gly Tyr Ser Glu Leu Pro Leu Thr Leu Gln Met Phe Ile Gly Thr Ala Asp Glu Arg Asn Leu Arg Pro His Ala Phe Tyr Gln Val His Arg Ile Thr Gly Leu Met Val Ala Thr Ala Ser Tyr Glu Ala Val Val Ser Gly Thr Leu Val Leu Glu Met Thr Leu Leu Pro Glu Asn Asn Met Ala Ala Asn Ile Asp Cys Ala Gly Ile Leu Leu Leu Arg Asn Ser Asp Ile Glu Leu Arg Lys Gly Glu Thr Asp Ile Gly Arg Lys Asn Thr Arg Val Arg Leu Val Phe Arg Val His Val Pro Gln Gly Gly Leu Val Val Ser Val Gln Ala Ala Ser Val Pro Ile Glu Cys Ser Gln Arg Ser Ala Gln Glu Leu Pro Gln Val Glu Ala Tyr Ser Pro Ser Ala Cys Ser Val Arg Gly Glu Glu Leu Val Leu Thr Gly Ser Asn Phe Leu Pro Asp Ser Leu Val Val Phe Ile Glu Arg Gly Pro Asp Gly Leu Leu Gln Trp Glu Glu Glu Ala Thr Val Asn Arg Leu Gln Ser Asn Glu Val Thr Leu Thr Leu Thr Val Pro Glu Tyr Ser Asn Leu Arg Val Ser Arg Pro Val Gln Val Tyr Phe Tyr Val Ser Asn Gly Arg Arg Lys Arg Ser Pro Thr Gln Ser Phe Arg Phe Leu Pro Val Ile Cys

675 680 685

Leu Glu Glu Pro Leu Pro Asp Ser Ser Leu Arg Gly Phe Pro Ser Ala
690 695 700

Ser Ala Thr Pro Phe Gly Thr Asp Met Asp Phe Ser Pro Pro Arg Pro

Pro Tyr Pro Ser Tyr Pro His Glu Asp Pro Ala Cys Glu Thr Pro Tyr
725 730 735

715

Leu Ser Glu Gly Phe Gly Tyr Gly Met Pro Pro Leu Tyr Pro Gln Thr 740 745 750

Gly Pro Pro Pro Ser Tyr Arg Pro Gly Leu Arg Met Phe Pro Glu Thr 755 760 765

Arg Gly Thr Thr Gly Cys Ala Gln Pro Pro Ala Val Ser Phe Leu Pro 770 775 780

Arg Pro Phe Pro Ser Asp Pro Tyr Gly Gly Arg Gly Ser Ser Phe Pro 785 790 795 800

Leu Gly Leu Pro Phe Ser Pro Pro Ala Pro Phe Arg Pro Pro Pro Leu 805 810 815

Pro Ala Ser Pro Pro Leu Glu Gly Pro Phe Pro Ser Gln Ser Asp Val 820 825 830

His Pro Leu Pro Ala Glu Gly Tyr Asn Leu Val Gly Pro Gly Tyr Gly 835 840 845

Pro Gly Glu Gly Ala Pro Glu Gln Glu Leu Ser Arg Gly Gly Tyr Ser 850 855 860

Ser Gly Phe Arg Asp Ser Val Pro Ile Gln Gly Ile Thr Leu Glu Glu 865 870 875 880

Val Ser Glu Ile Ile Gly Arg Asp Leu Ser Gly Phe Pro Ala Pro Pro 885 890 895

Gly Glu Glu Pro Pro Ala 900

(2) INFORMATION FOR SEQ ID NO:9:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2881 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:



